

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 175 AND WINMEYER AVENUE IN ANNE ARUNDEL COUNTY. MD 175 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. THIS WORK IS NECESSITATED BY THE CONSTRUCTION OF THE FOURTH LEG OF THE INTERSECTION.

CONTROLLER OPERATION

THE EXISTING EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. THE CONTROLLER CURRENTLY OPERATES IN A FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR SOUTHBOUND MD 175. THE REVISED CONTROLLER OPERATION WILL BE A SIX-PHASE FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR BOTH NORTHBOUND AND SOUTHBOUND MD 175 AND SIDE STREET SPLIT PHASING.

PHASE CHART

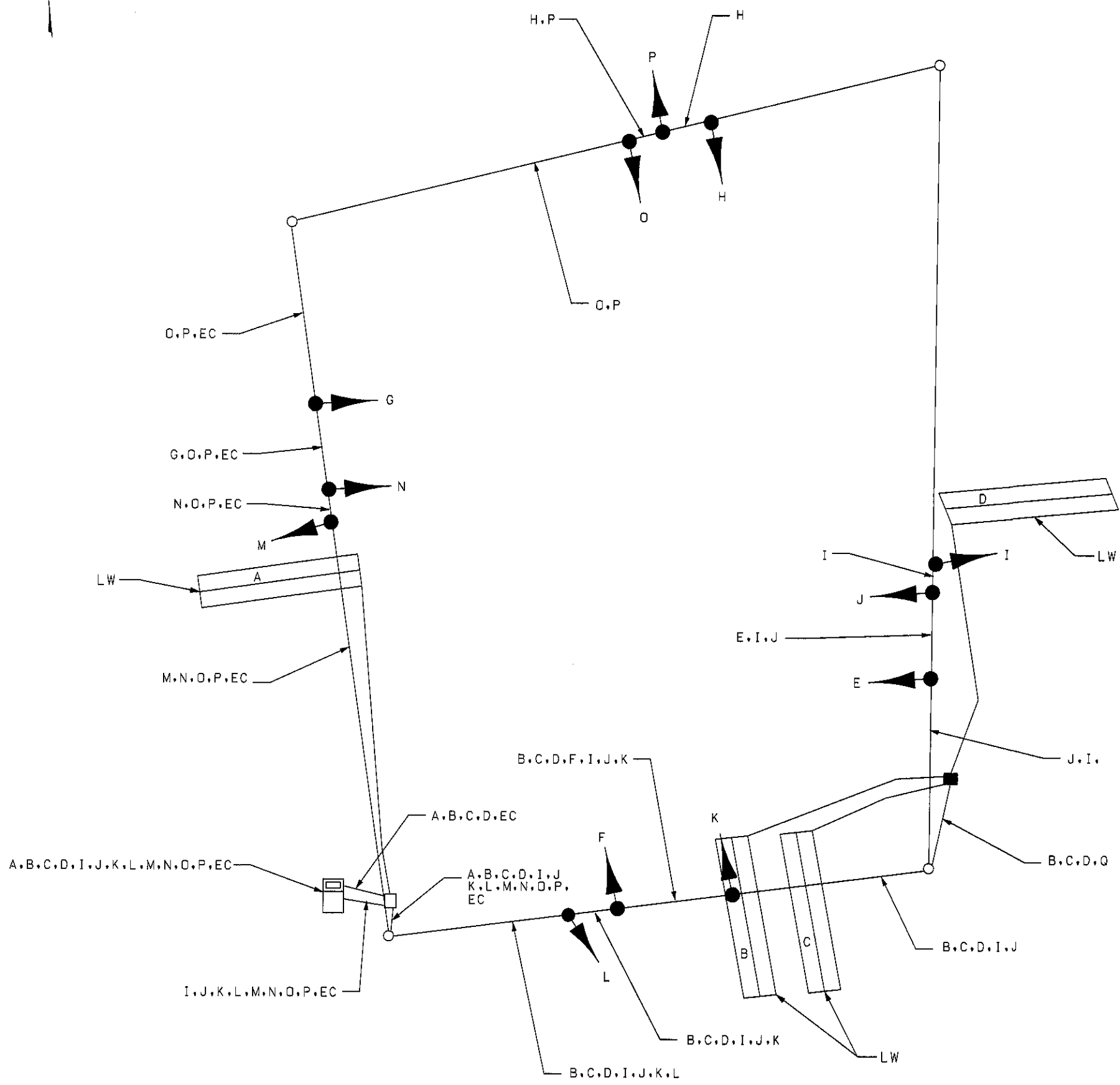
	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 5	R	R	R	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 1 & 6	G	G	G	R	R	R	R	R	R	R	R	R
1 & 6 CHANGE	R	R	R	G	G	G	G	G	G	G	G	G
PHASE 2 & 5	R	R	R	R	R	R	R	R	R	R	R	R
2 & 5 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO DOT FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	LS	MAINTENANCE OF TRAFFIC
5001	2 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW (LEFT/THRU)
5001	2 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW (LEFT)
5003	10 EA	REMOVE EXISTING PAVEMENT MARKING LETTER OR ARROW
5005	140 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5006	180 LF	FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5007	300 LF	FURNISH AND INSTALL 5 IN. YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5008	530 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS ANY WIDTH
8005	2 EA	ADJUST HANDHOLE TO FINAL GRADE INCLUDING COLLAR
8011	36 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8019	12 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
8042	1 EA	FURNISH AND INSTALL 2 IN. CONDUIT BEND IN EXISTING FOUNDATION
8048	LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
8060	20 LF	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8062	50 LF	FURNISH AND INSTALL 1 IN. ELECTRICAL CONDUIT GALVANIZED SLEEVE
8072	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8080	1 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER BY 10 FT. LENGTH
8081	710 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED)
8084	75 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8085	1350 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
8087	2000 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8088	540 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL LOOP DETECTOR
8091	20 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
---	1 EA	FURNISH AND INSTALL R10-12 SIGN (36" X 42")-SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R3-5(R) SIGN (30" X 36")-SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R3-6(L) SIGN (30" X 36")-SPAN WIRE MOUNT

WIRING DIAGRAM



WIRING KEY

- A-D 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
- E-H 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- I-P 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- Q STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- LW LOOP WIRE (NO. 14 A.W.G.)
- EC EXISTING CABLE
- X GROUND ROD

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1002

MR. LARRY ELLIOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR

TRAFFIC **C**ONCEPTS, INC.

325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION
MD 175 AT WINMEYER AVENUE

DRAWN BY: M.HOWELL	F.A.P. NO. _____	TS NO. 1639 A	SHEET NO. 2 OF 2
CHECKED BY: J.ZAYDEL	S.H.A. NO. _____	T.I.M.S. NO. F-163	
SCALE: 1" = 20'	COUNTY: ANNE ARUNDEL		
DATE: 4-5-02	LOG MILE: 22+175.03-40		